

Barudan

BEAT-UF

HIGH SPEED AUTOMATIC EMBROIDERY MACHINE

PARTS BOOK

V10011

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TELEX 4573268 BARUNA J

CABLE BARUNA ICHINOMIYA

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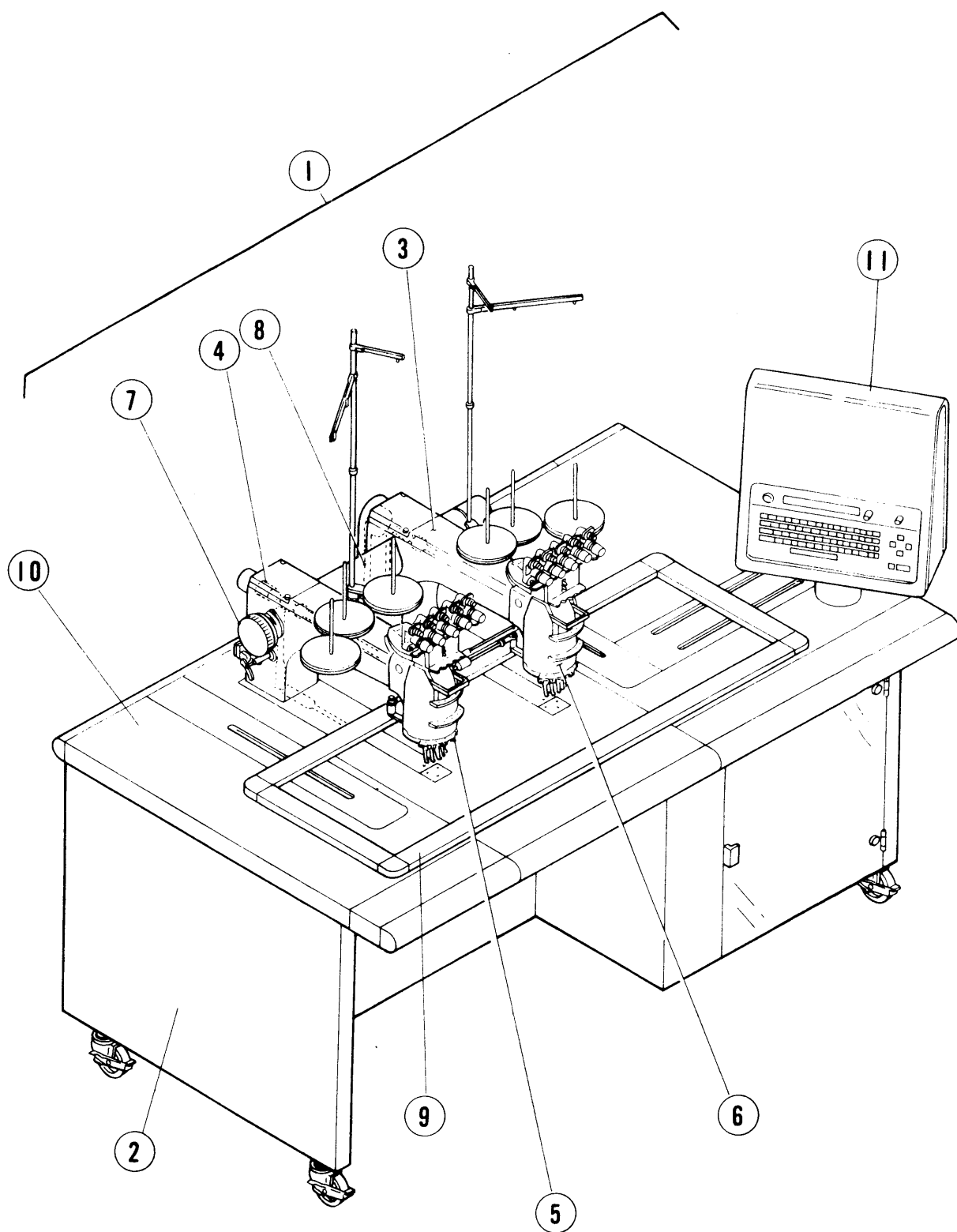
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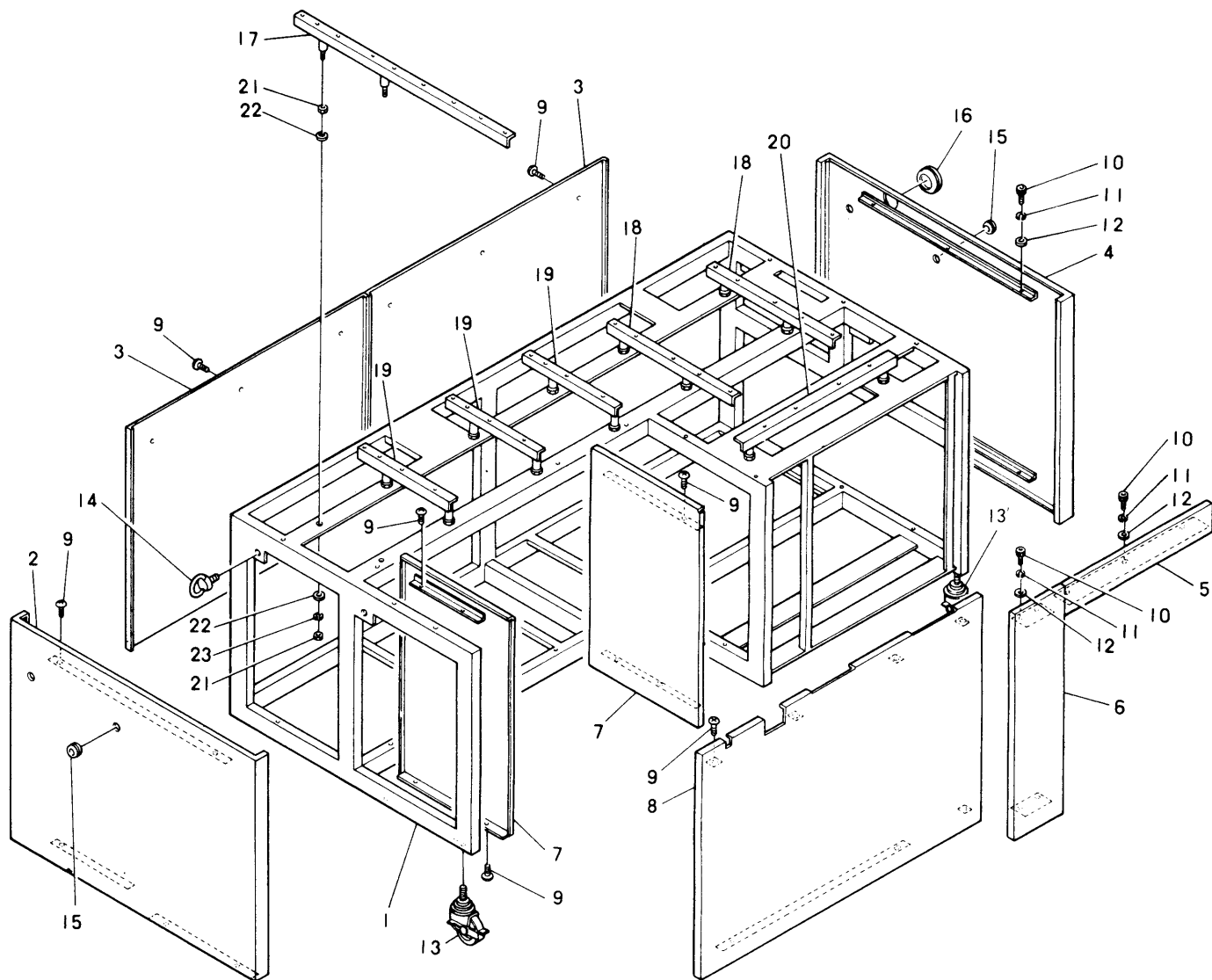
① MACHINE LAYOUT



BEAT-UF MACHINE LAYOUT

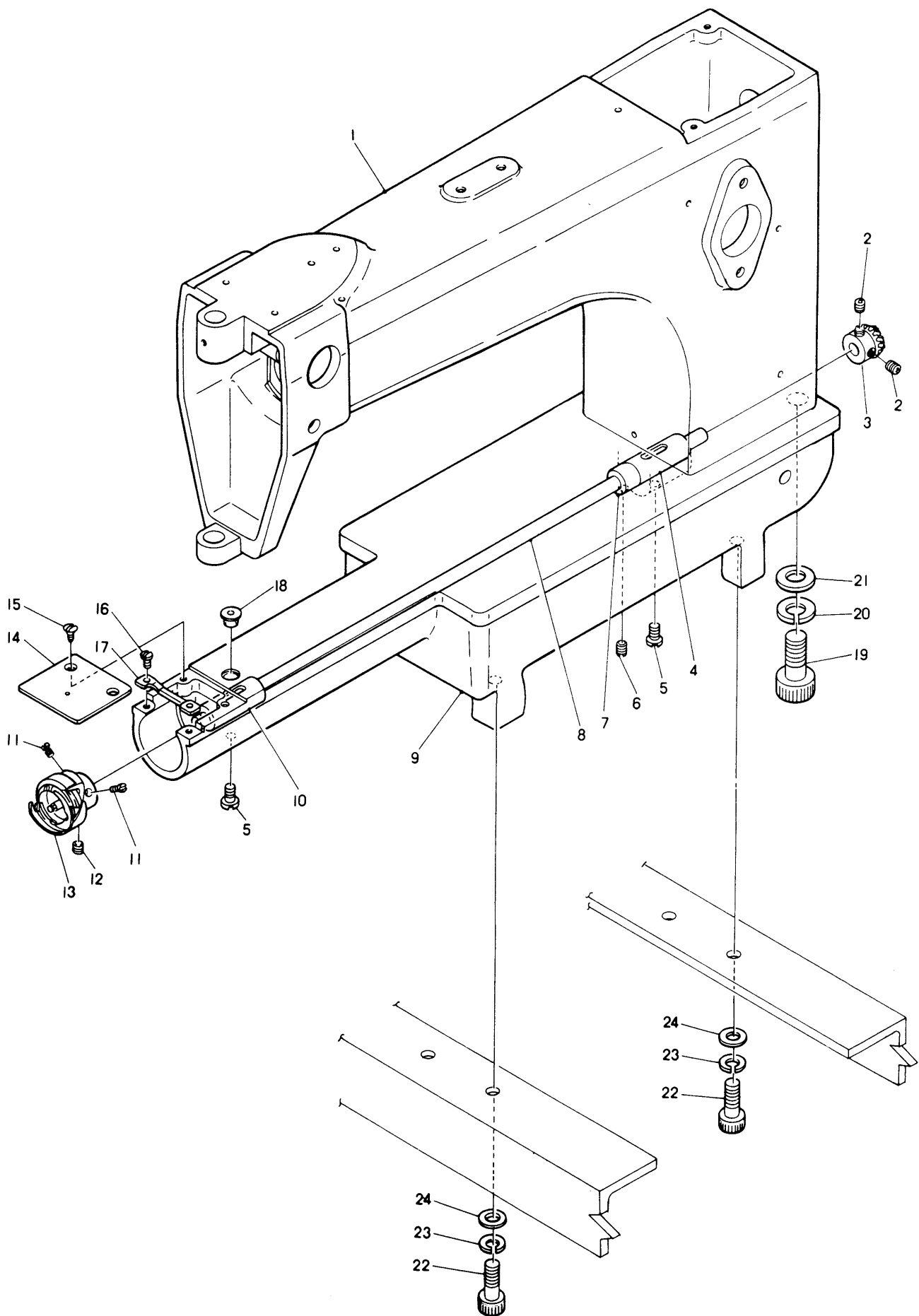
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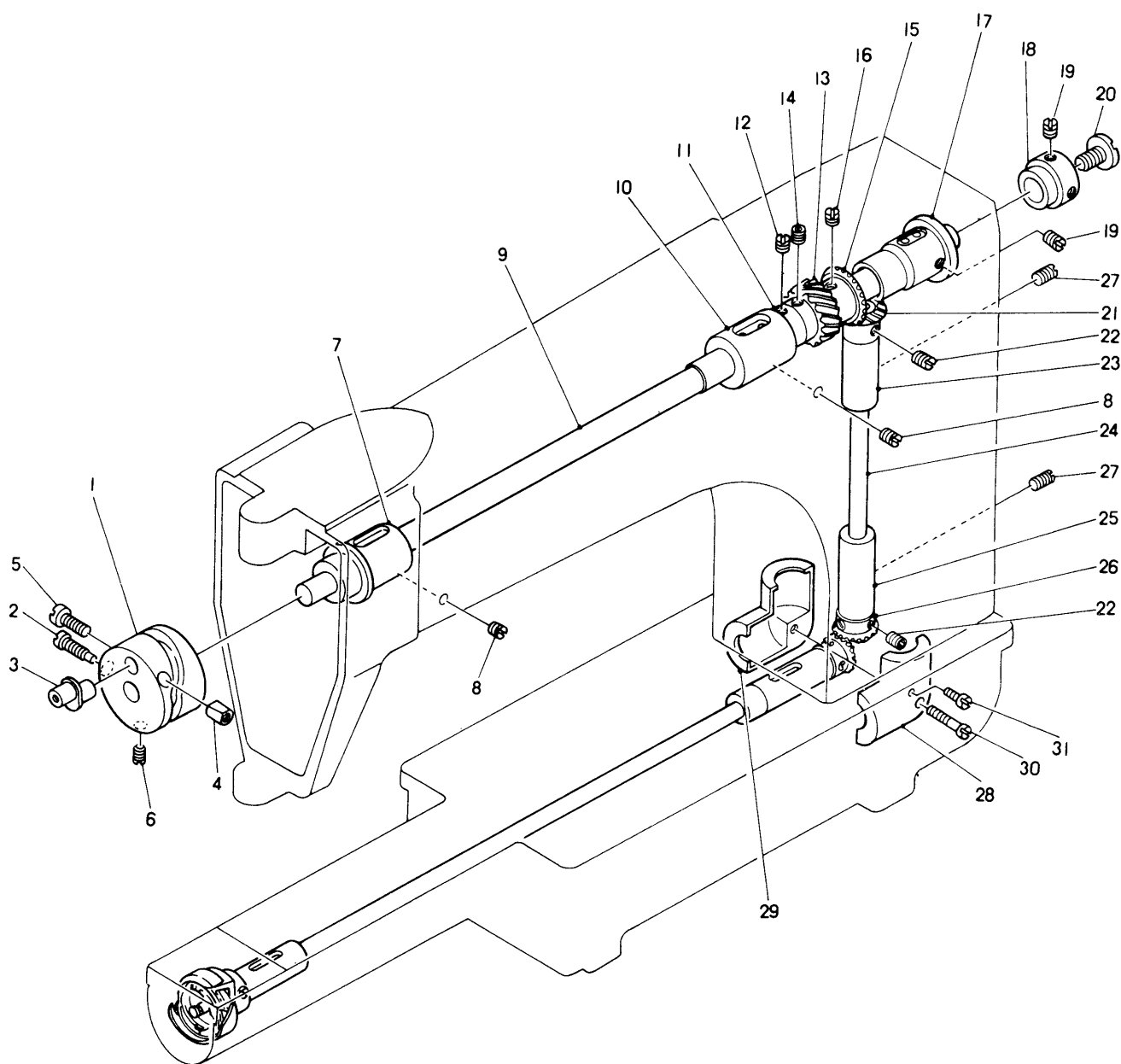
② MACHINE STAND FRAME

No.	Parts No.	Description
1	1124A.....	STAND FRAME ASSY (BEAT-102, 300×450)
	1125A.....	STAND FRAME ASSY (BEAT-102, 300×300)
	1126A.....	STAND FRAME ASSY (BEAT-101, 300×450)
	1127A.....	STAND FRAME ASSY (BEAT-101, 300×300)
2	1163A.....	STAND FRAME SIDE COVER NO.3
3	1162A.....	STAND FRAME SIDE COVER NO.2
	1168A.....	STAND FRAME SIDE COVER NO.8
4	1161A.....	STAND FRAME SIDE COVER NO.1
5	1164A.....	STAND FRAME SIDE COVER NO.4
6	1165A.....	STAND FRAME SIDE COVER NO.5
7	1166A.....	STAND FRAME SIDE COVER NO.6
8	1167A.....	STAND FRAME SIDE COVER NO.7
9	.....	SCREW (M6×1)
10	.....	BOLT (M6×1)
11	.....	SPRING WASHER
12	.....	PLATE WASHER
13	91298.....	CASTER 415SARH75 (SMALL)
13'	91297.....	CASTER 415SARH100 (LARGE)
14	.....	BOLT (M16)
15	.....	PLUG HOLE (φ30)
16	.....	PLUG HOLE (φ42)
17	1285A.....	TABLE BASE (650L)
18	1282A.....	TABLE BASE (405L)
19	1283A.....	TABLE BASE (315L)
20	1284A.....	TABLE BASE (505L)
21	.....	NUT (W3/8)
22	.....	PLATE WASHER
23	.....	SPRING WASHER



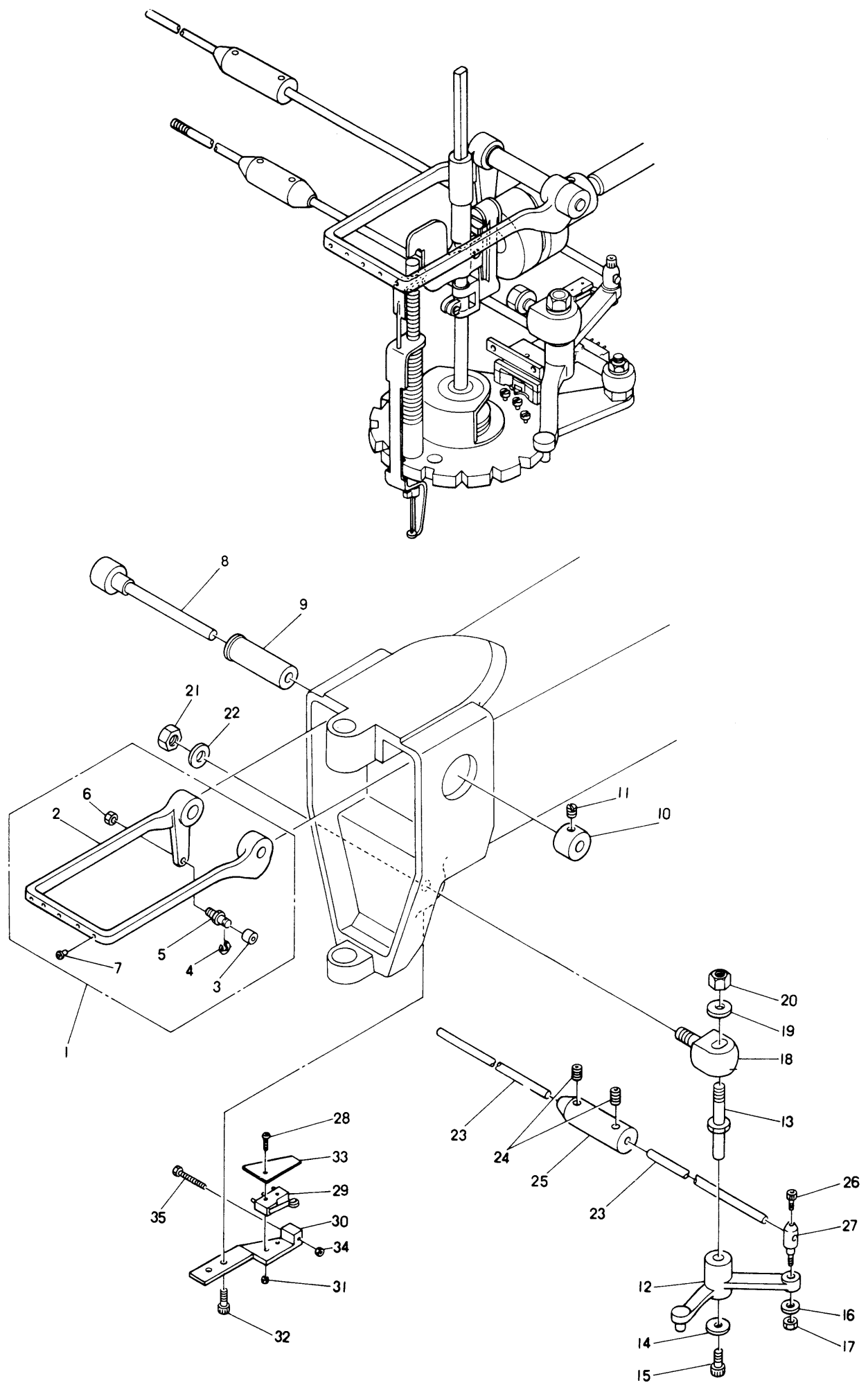
③ SEWING HEAD BASE

No.	Parts No.	Description
1	2111C.....	SEWING HEAD
2	.....	GRUB SCREW (SM1/4 40)
3	2248F.....	BEVEL GEAR (HOOK SHAFT)
4	2222F.....	HOOK SHAFT BUSH (REAR)
5	.....	SCREW (SM15/64 28)
6	.....	GRUB SCREW (SM15/64 28)
7	2229F.....	COLLAR
8	2221A.....	HOOK SHAFT
9	2121A.....	SEWING HEAD BASE PLATE
10	2223F.....	BUSH (HOOK SHAFT)
11	.....	SCREW
12	.....	GRUB SCREW
13	2231F.....	SEWING HOOK AND BASE
14	2513A.....	NEEDLE PLATE
15	.....	NEEDLE PLATE SCREW (SM11/64 40)
16	.....	SCREW FOR HOOK BASE RETAINING FINGER
17	2251A.....	HOOK BASE RETAINING FINGER
18	2255F.....	DUST PROOF OILER
19	.....	BOLT (M12×1.75)
20	.....	SPRING WASHER
21	.....	PLATE WASHER
22	.....	BOLT (M8×1.25)
23	.....	SPRING WASHER
24	.....	PLATE WASHER



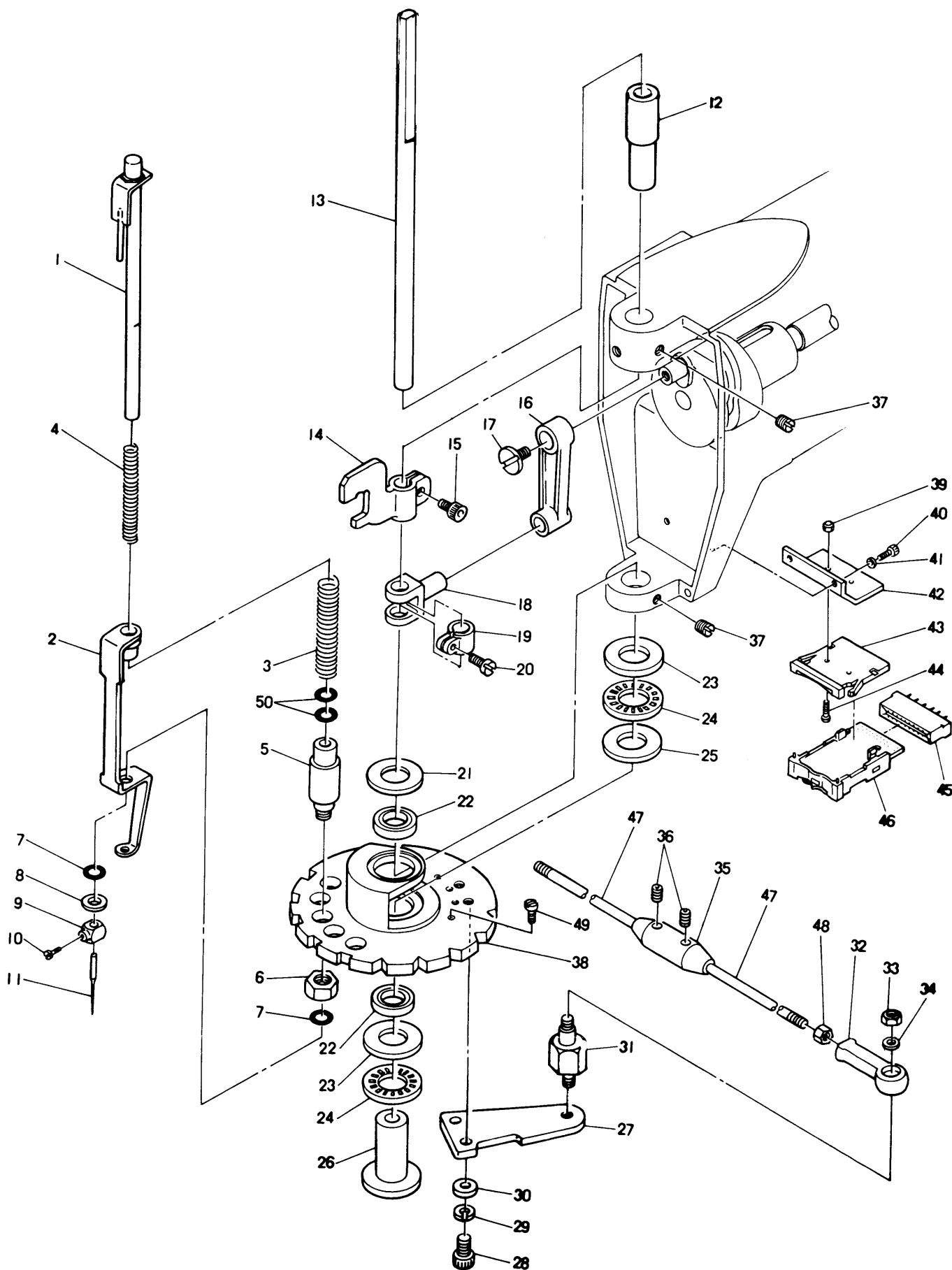
④ TOP AND VERTICAL SHAFT OF SEWING HEAD

No.	Parts No.	Description
1	2341F.....	TAKE UP LEVER CAM
2	2342F.....	LOCATING SCREW
3	2343F.....	CRANK PIN
4	2344F.....	RETAINING PIN
5	.....	SCREW FOR RETAINING PIN (SM3/16 32)
6	.....	GRUB SCREW (M6×1)
7	2214F.....	FRONT ARM SHAFT BUSH
8	.....	GRUB SCREW (SM15/64 28)
9	2211F.....	ARM SHAFT
10	2216F.....	ARM SHAFT CENTRE BUSH
11	2218F.....	COLLAR
12	.....	GRUB SCREW (SM15/64 28)
13	2212F.....	HELICAL GEAR
14	.....	GRUB SCREW (M6×1)
15	2213F.....	BEVEL GEAR (LARGE)
16	.....	GRUB SCREW (SM1/4 40)
17	2215F.....	REAR BUSH
18	2219F.....	COLLAR
19	.....	GRUB SCREW (SM15/64 28)
20	2245F.....	REAR LOCKING SCREW
21	2246F.....	BEVEL GEAR (SMALL)
22	.....	GRUB SCREW (SM1/4 40)
23	2224F.....	VERTICAL SHAFT BUSH (UPPER)
24	2225F.....	VERTICAL SHAFT
25	2223F.....	BUSH
26	2247F.....	BEVEL GEAR (VERTICAL SHAFT)
27	.....	GRUB SCREW (SM15/64 28)
28	2227F.....	GREASE COVER (RHS)
29	2228F.....	GREASE COVER (LHS)
30	.....	SCREW (SM9/32 28)
31	.....	SCREW (SM15/64 28)



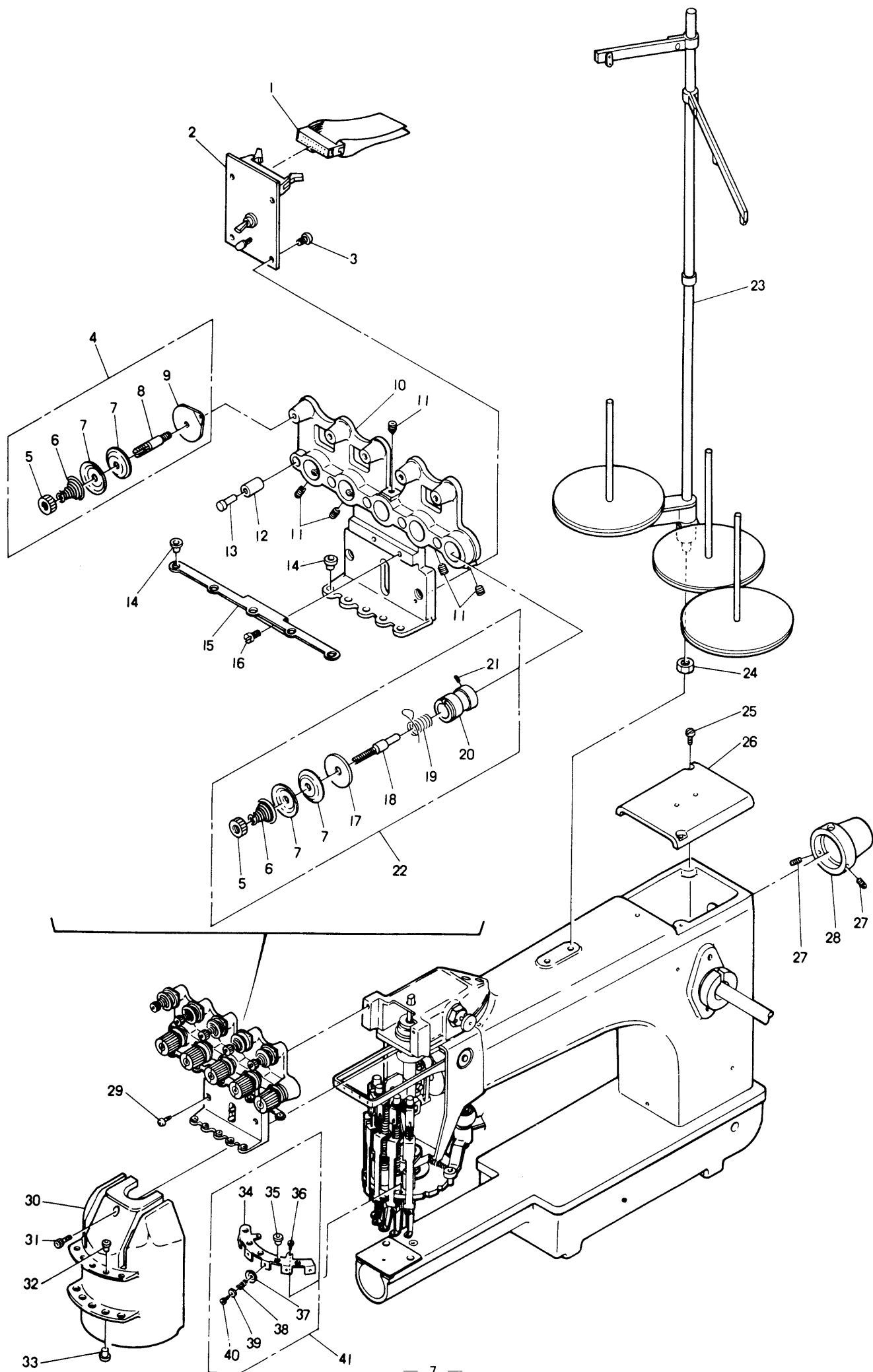
⑤-① NEEDLE BAR/TAKE UP LEVER MECHANISM

No.	Parts No.	Description
1	2303F.....	TAKE UP LEVER ASSY COMPLETE
2	2349F.....	TAKE UP LEVER
3	2353F.....	ROLLER
4	.....	CIRCLIP
5	2354F.....	STUD
6	.....	NUT (SM7/32 32)
7	2358F.....	CERAMIC THREAD GUIDE
8	2351F.....	TAKE UP LEVER SHAFT
9	2352F.....	TAKE UP SPINDLE BUSH
10	2355F.....	COLLAR
11	.....	GRUB SCREW (SM1/4 40)
12	2361F.....	LOCK LEVER
13	2363F.....	THREADED STUD
14	.....	PLATE WASHER
15	.....	SOCKET SCREW (M5×0.8)
16	.....	PLATE WASHER
17	.....	NUT (M4×0.7)
18	2365F.....	LOCK LEVER BRACKET
19	.....	PLATE WASHER
20	.....	NUT (M8×1.25)
21	.....	NUT (M10×1.5)
22	.....	WASHER
23	3341A.....	LOCK BAR
24	.....	GRUB SCREW (M5×0.8)
25	3339F.....	LOCK BAR HAND GRIP
26	.....	BOLT (M4×0.7)
27	2364F.....	LOCK BAR POSITIONING CLAMP
28	.....	SCREW (M2×0.4)
29	4511C.....	LIMIT SWITCH
30	5346A.....	LIMIT SWITCH BASE
31	.....	NUT (M2×0.4)
32	.....	BOLT (M4×0.7)
33	5347A.....	LIMIT SWITCH PLATE
34	.....	NUT (M4×0.7)
35	.....	BOLT (M4×0.7)



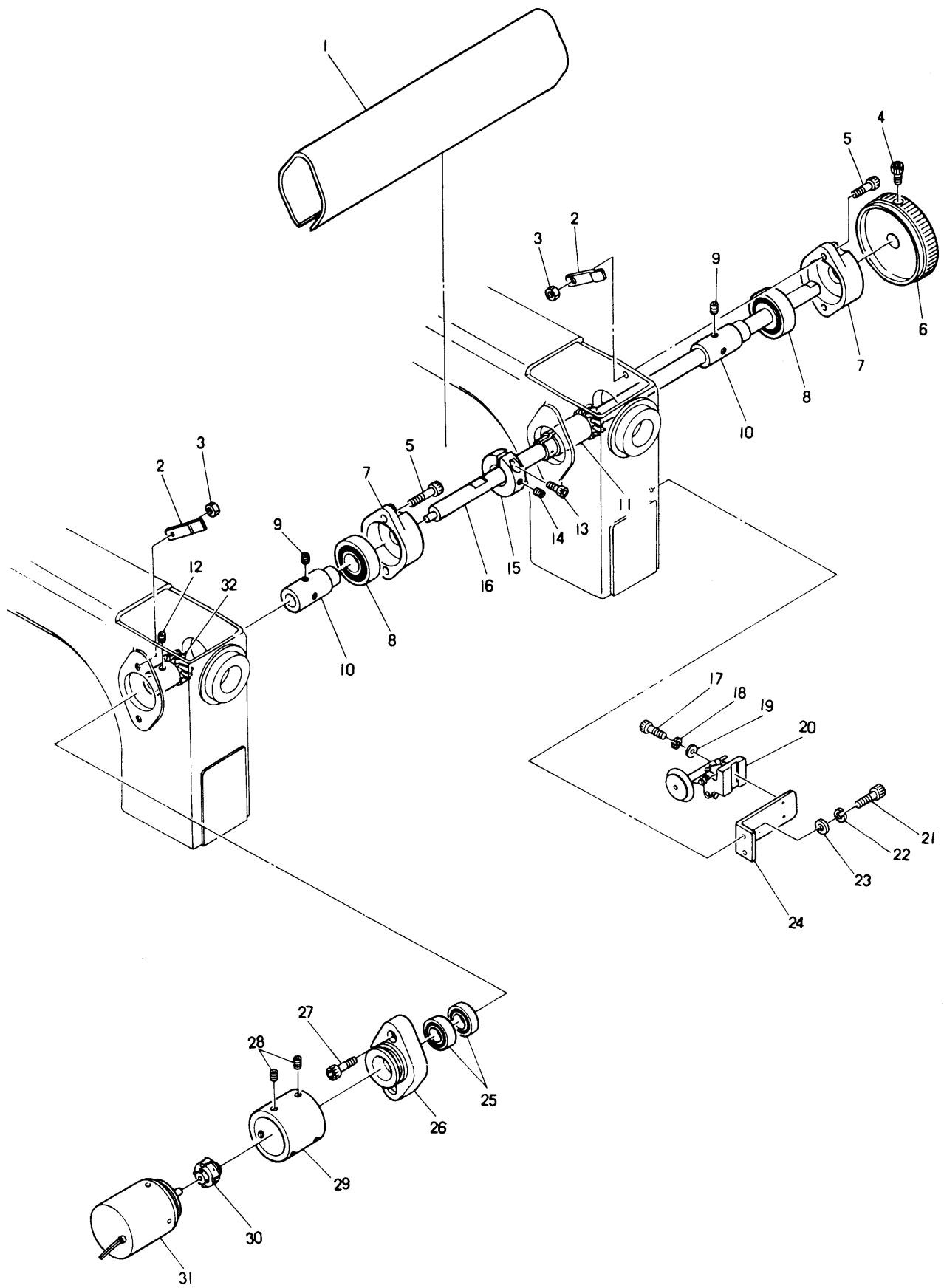
⑤-② NEEDLE BAR/TAKE UP LEVER MECHANISM

No.	Parts No.	Description
1	2301F	NEEDLE BAR ASSY
2	2302F	PRESSER FOOT
3	2321F	NEEDLE BAR SPRING (NARROW)
4	2318F	NEEDLE BAR SPRING (WIDE)
5	2313F	THREADED BUSH (TURRET ASSY)
6	2397F	HEXAGONAL NUT (M10×1.5)
7	2391F	NYLON WASHER (THIN)
8	2393F	NYLON BUSH (RUBBER O-RING)
9	2323F	NEEDLE CLAMP
10	2324F	NEEDLE CLAMP SCREW (SM9/64 40)
11	2325F	NEEDLE
12	2332F	UPPER BUSH
13	2331F	NEEDLE BAR DRIVER SHAFT
14	2334C	NEEDLE BAR DRIVER
15		SCREW (M4×0.7)
16	2346F	NEEDLE BAR CONNECTING LINK
17	2345F	SCREW FOR NEEDLE BAR CONNECTING LINK
18	2347F	NEEDLE BAR DRIVING FORK
19	2348F	NEEDLE SHAFT CLAMP
20		SCREW FOR NEEDLE SHAFT CLAMP (SM9/64 40)
21	2312F	THRUST RACE WASHER
22	91011	BEARING SPACER SSA-2015F
23	91123	THRUST RACE WASHER GS-1528
24	91121	THRUST RACE NTB-1528
25	91122	THRUST RACE WASHER AS-1528
26	2333F	BEARING SHAFT
27	2335F	TURRET POSITION BRACKET
28		ALAN SCREW FOR TURRET POSITION BRACKET
29		SPRING WASHER
30		PLATE WASHER
31	2336F	PIVOT CONNECTING STUD
32	91203	PIVOT COUPLING (RD 4-020-R/L)
33		NUT (M4×0.7)
34		PLATE WASHER
35	3338F	COLOUR CHANGE ROD HAND GRIP
36		GRUB SCREW (M5×0.8)
37		GRUB SCREW (M15/64 28)
38	2311A	NEEDLE BAR TURRET PLATE
39		NUT (M3×0.5)
40		BOLT (M4×0.7)
41		PLATE WASHER
42	5344A	BRACKET
43	5342A	PLATE FOR A7AS
44		SCREW (M3×0.5)
45	5343A	CONNECTOR (NRT-CD)
46	5341A	ROTARY SWITCH (A7AS-203)
47	3331A	ROD
48		ROD LOCKING NUT (M5×0.8)
49		SCREW (M4×0.7)
50	2392F	NYLON BUSH (RUBBER O-RING)



⑥ THREAD GUIDE MECHANISM

No.	Parts No.	Description
1	5141A	HEAD PCB CABLE
2	5118C	HEAD BREAK PCB
3		SCREW FOR THREAD BREAK PCB (M3×0.5)
4	2406F	UPPER TENSION UNIT COMPLETE
5	2471F	ADJUSTING NUT UPPER AND LOWER
6	2436H	THREAD TENSION SPRING
7	2425F	THREAD TENSION DISCS
8	2416F	THREAD TENSION POST (UPPER)
9	2422F	TENSION DISC PLASTIC INSULATOR (UPPER)
10	2411C	THREAD TENSION ASSY BRACKET
11		GRUB SCREW (M5×0.8)
12	2432F	INSULATOR
13	2431F	STOP MOTION CONTACT
14	2491F	THREAD GUIDE (CERAMIC)
15	2433F	TOP THREAD GUIDE BAR
16		SCREW (SM9/64 40)
17	2475F	TENSION DISC PLASTIC INSULATOR (LOWER)
18	2417F	THREAD TENSION POST (LOWER)
19	2481F	CHECK SPRING
20	2477F	TENSION SPRING HOLDER
21		GRUB SCREW (SM9/64 40)
22	2407F	LOWER TENSION UNIT COMPLETE
23	7101A	THREAD STAND
		SENER ROD
		SINGLE THREAD GUIDE
		TWIN THREAD GUIDE
		SINGLE CONE STAND
		TWIN CONE STAND
24		NUT (M8×1.25)
25		SCREW (SM3/16 28)
26	2516C	ARM SHAFT GEAR COVER
27		GRUB SCREW (M6×1)
28	2511F	REAR BEARING COVER
29		SCREW (M4×0.7)
30	2512F	SEWING HEAD COVER
31		ALAN SCREW (M5×0.8)
32	2492F	CERAMIC GUIDE (UPPER)
33	2493F	CERAMIC GUIDE (LOWER)
34	2521F	THREAD END TRAP BASE PLATE
35	2491F	THREAD GUIDE (CERAMIC)
36		SCREW FOR TRAP DISC (M3×0.5)
37	2522F	THREAD TRAP DISC
38	2524F	SPRING
39	2523F	WASHER
40	2525F	SCREW
41	2501F	THREAD END TRAP UNIT ASSY

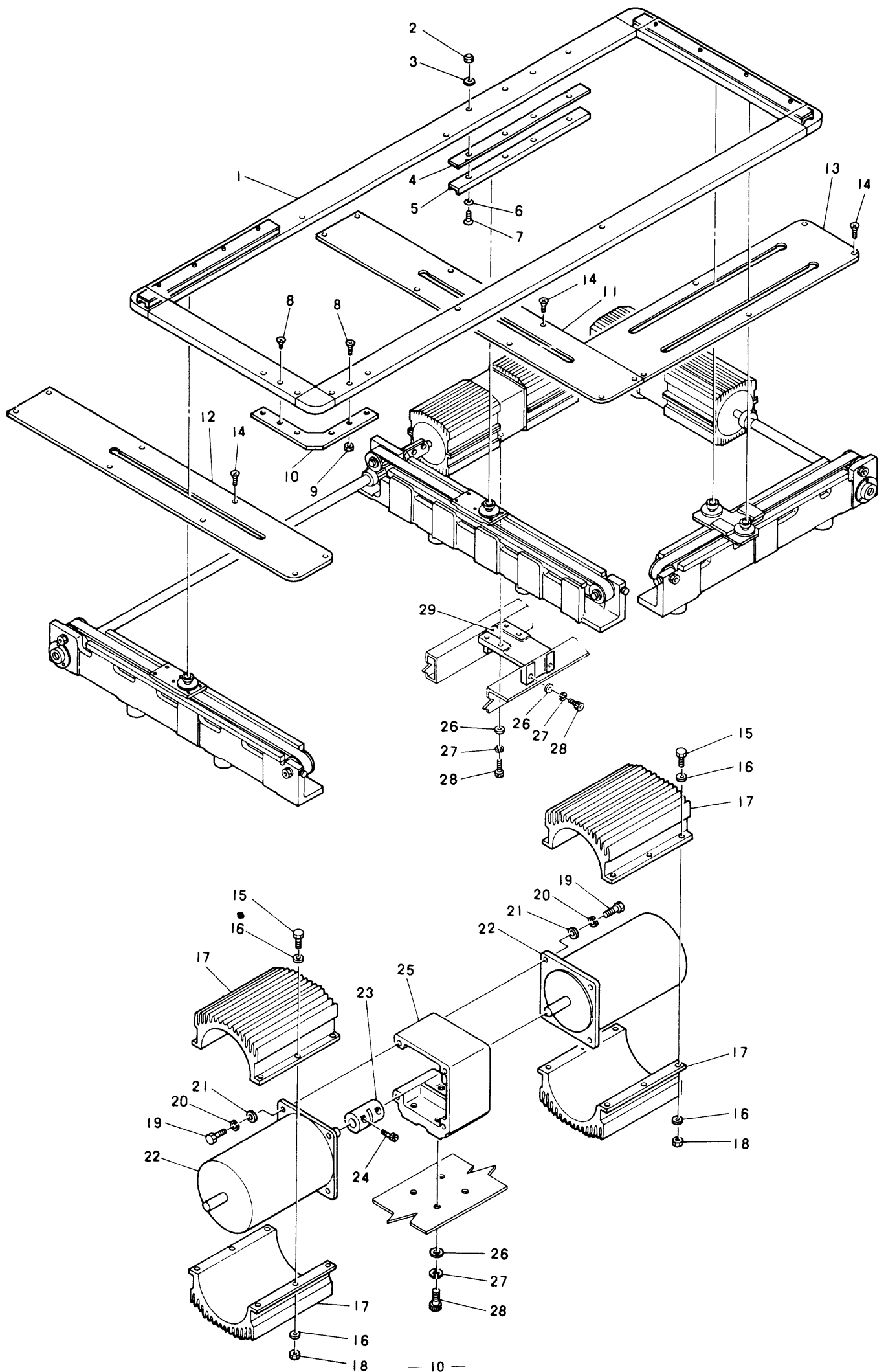


⑦ GANG SHAFT MECHANISM

No.	Parts No.	Description
1	3231C	SHAFT COVER
2	5199A	CABLE CLAMP
3		NUT (M6×1)
4		BOLT (M6×1)
5		BOLT (M6×1)
6	3259A	HAND GRIP
7	3225F	FLANGE
8	91002	BEARING 6204ZZ
9		GRUB SCREW (M6×1)
10	3226F	SHAFT COLLAR
11	3251F	HELICAL GEAR
12		GRUB SCREW (M6×1)
13		BOLT (M6×1)
14		GRUB SCREW (M6×1)
15	3252F	HELICAL GEAR CLAMP
16	3218A	CONNECTING SHAFT (BEAT-102, 300×300)
16'	3215A	CONNECTING SHAFT (BEAT-101)
16"	3219A	CONNECTING SHAFT (BEAT-102, 300×450)
17		BOLT (M6×1)
18		SPRING WASHER
19		PLATE WASHER
20	7136A	BOBBIN WINDER ASSY
21		BOLT (M5×0.8)
22		SPRING WASHER
23		PLATE WASHER
24	7137A	BOBBIN WINDER BRACKET
25	91007	BEARING 6002ZZ
26	5192C	POSITION CODER HOLDER
27		BOLT (M6×1)
28		GRUB SCREW (M4×0.7)
29	3182H	POSITION CODER COLLAR
30	5124C	CODER COUPLING
31	5121A	POSITION CODER

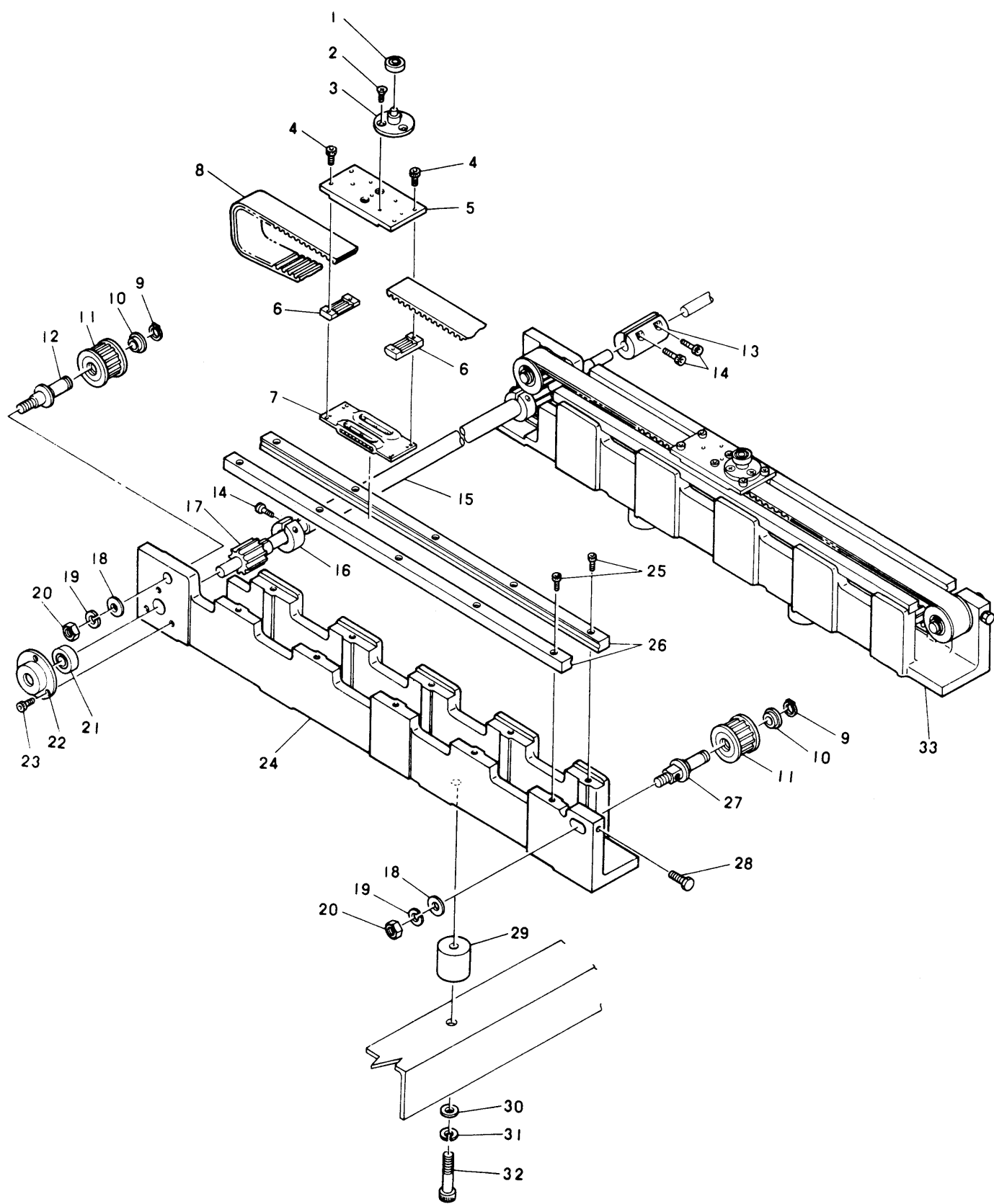
⑧ DRIVE MECHANISM

No.	Parts No.	Description
1		GRUB SCREW (M6×1)
2	2244A	PULLY
3	2245F	REAR LOCKING SCREW
4	3113A	DC MOTOR
5		BOLT (M5×0.8)
6		SPRING WASHER
7		PLATE WASHER
8	3415A	SPACER
9		NUT (M5×0.8)
10	3411A	MOTOR BASE
11		BOLT (M8×1.25)
12		SPRING WASHER
13		PLATE WASHER
14	92012	V BELT (M38)
15	92011	V BELT (M37)
16		BOLT (M6×1)
17	3131A	MOTOR PULLY (A 2½)
18	3123H	COLLAR
19		BOLT (M6×1)
20	91003	BEARING 6001ZZ
21	3125A	DOUBLE GROOVED PULLY
22	3122A	IDLE PULLY SHAFT
23		BOLT (M6×1)
24	3121A	IDLE PULLY BASE
25		NUT (M12×1.75)
26		SPRING WASHER
27		PLATE WASHER
28		BOLT (M12×1.75)
29	31B6A	BELT COVER STAY
30	31B5A	BELT COVER
31		PLATE WASHER
32		BOLT (M5×0.8)



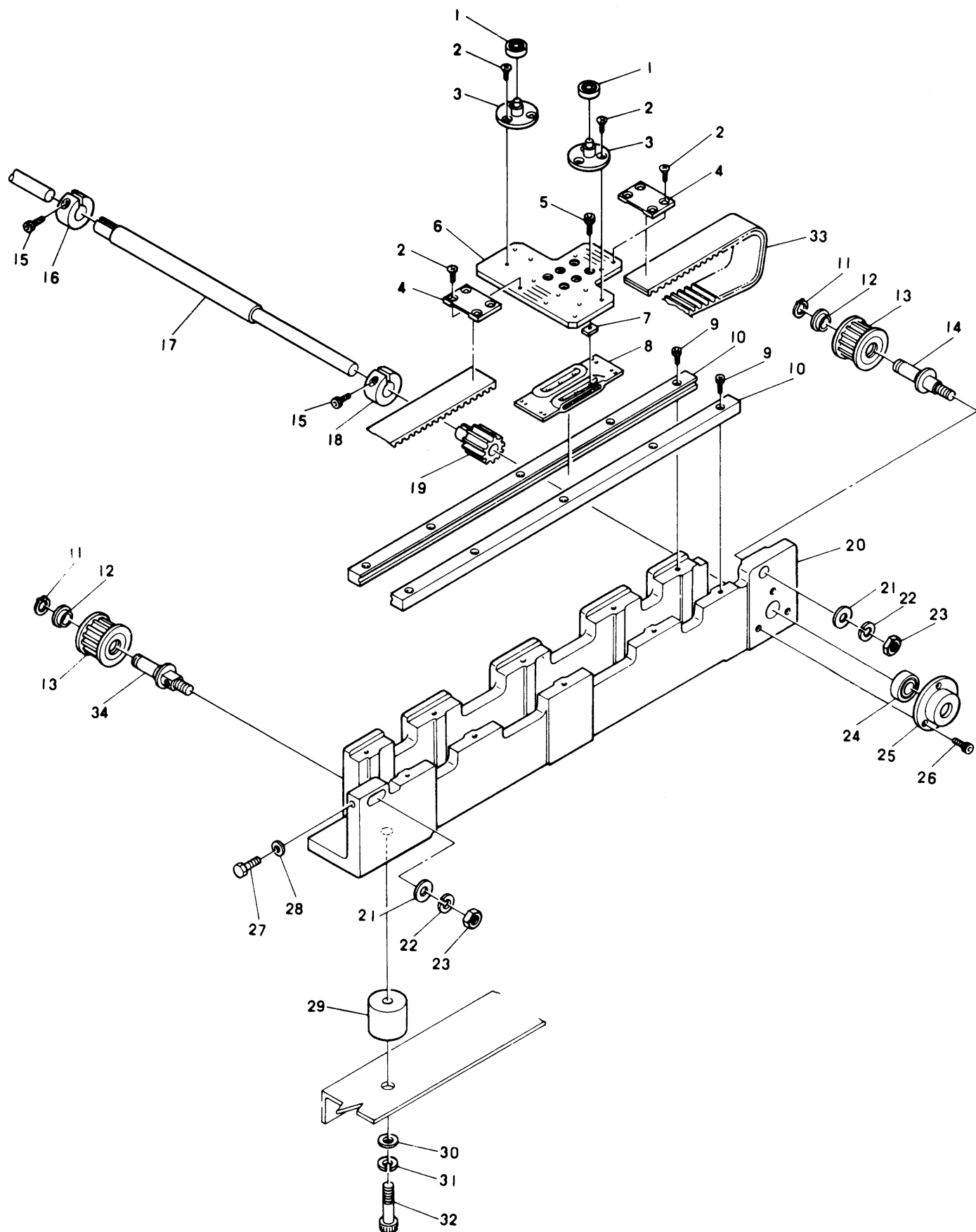
⑨-① PANTOGRAPH DRIVE MECHANISM

No.	Parts No.	Description
1	4509A.....	PANTOGRAPH ASSY (BEAT-102, 300×450)
	4510A.....	PANTOGRAPH ASSY (BEAT-101, 300×300)
	4520A.....	PANTOGRAPH ASSY (BEAT-102, 300×300)
	4559A.....	PANTOGRAPH ASSY (BEAT-101, 300×450)
2	.....	NUT (M4×0.7)
3	.....	PLATE WASHER
4	4851A.....	SPACER
5	4835A.....	RAIL (H)
	4836A.....	RAIL (V)
6	.....	WASHER
7	.....	SCREW (M4×0.7)
8	.....	SCREW (M4×0.7)
9	.....	NUT (M4×0.7)
10	4592A.....	CORNER PLATE
11	4814A.....	H RAIL COVER (R)
12	4815A.....	H RAIL COVER (L)
13	4816A.....	V RAIL COVER (300L)
	4818A.....	V RAIL COVER (450L)
14	.....	SCREW (M4×0.7)
15	.....	BOLT (M3×0.5)
16	.....	PLATE WASHER
17	4712H.....	PULSE MOTOR COVER
18	.....	NUT (M3×0.5)
19	.....	BOLT (M5×0.8)
20	.....	SPRING WASHER
21	.....	PLATE WASHER
22	4711H.....	PULSE MOTOR
23	4717H.....	COUPLING
24	.....	BOLT (M5×0.8)
25	4715A.....	PULSE MOTOR BRACKET
26	.....	PLATE WASHER
27	.....	SPRING WASHER
28	.....	BOLT (M6×1)
29	4714A.....	PULSE MOTOR BASE



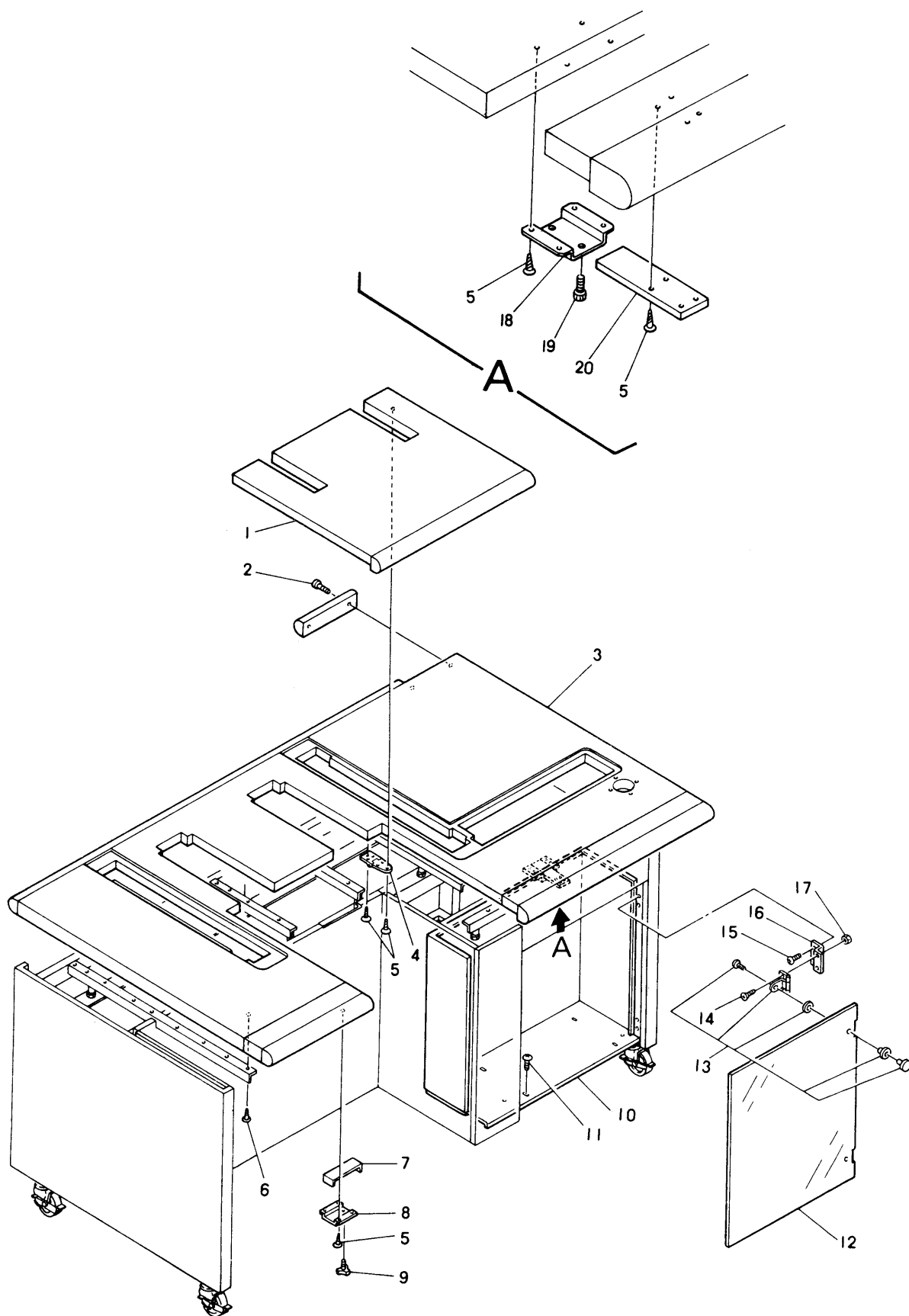
⑨-② PANTOGRAPH DRIVE MECHANISM (H DIRECTION)

No.	Parts No.	Description
1	91006	BEARING 625ZZ
2		SCREW (M4×0.7)
3	4826C	BEARING SHAFT
4		BOLT (M3×0.5)
5	4821C	H SLIDE PACK BASE
6	4765C	TIMING BELT RACK
7	4831H	SLIDE PACK (FBW3590)
8	4735A	TIMING BELT
9		RING
10	4841H	TIMING PULLY SHAFT BUSH
11	4754C	TIMING BELT PULLY
12	4844A	TIMING PULLY SHAFT (REAR)
13	4717H	COUPLING
	47E5A	CONNECTING SHAFT (H PULSE MOTOR)
14		BOLT (M5×0.8)
15	4781A	CONNECTING SHAFT (BEAT-101. 300×300)
	4782A	CONNECTING SHAFT (BEAT-102. 300×300)
	47E4A	CONNECTING SHAFT (BEAT-101. 300×450)
	47E6A	CONNECTING SHAFT (BEAT-102. 300×450)
16	4767C	CLAMPING COLLAR
17	4752H	TIMING BELT PULLY
18		PLATE WASHER
19		SPRING WASHER
20		NUT (M8×1.25)
21	91001	BEARING 6000ZZ
22	4779H	BEARING COVER
23		BOLT (M4×0.7)
24	4811A	H GUIDE RAIL BASE (L)
25		BOLT (M4×0.7)
26	4833C	GUIDE RAIL
27	4827C	TIMING PULLY SHAFT (FRONT)
28		BOLT (M4×0.7)
29	4849A	SPACER
30		PLATE WASHER
31		SPRING WASHER
32		BOLT (M8×1.25)
33	4811A	H GUIDE RAIL BASE (R)



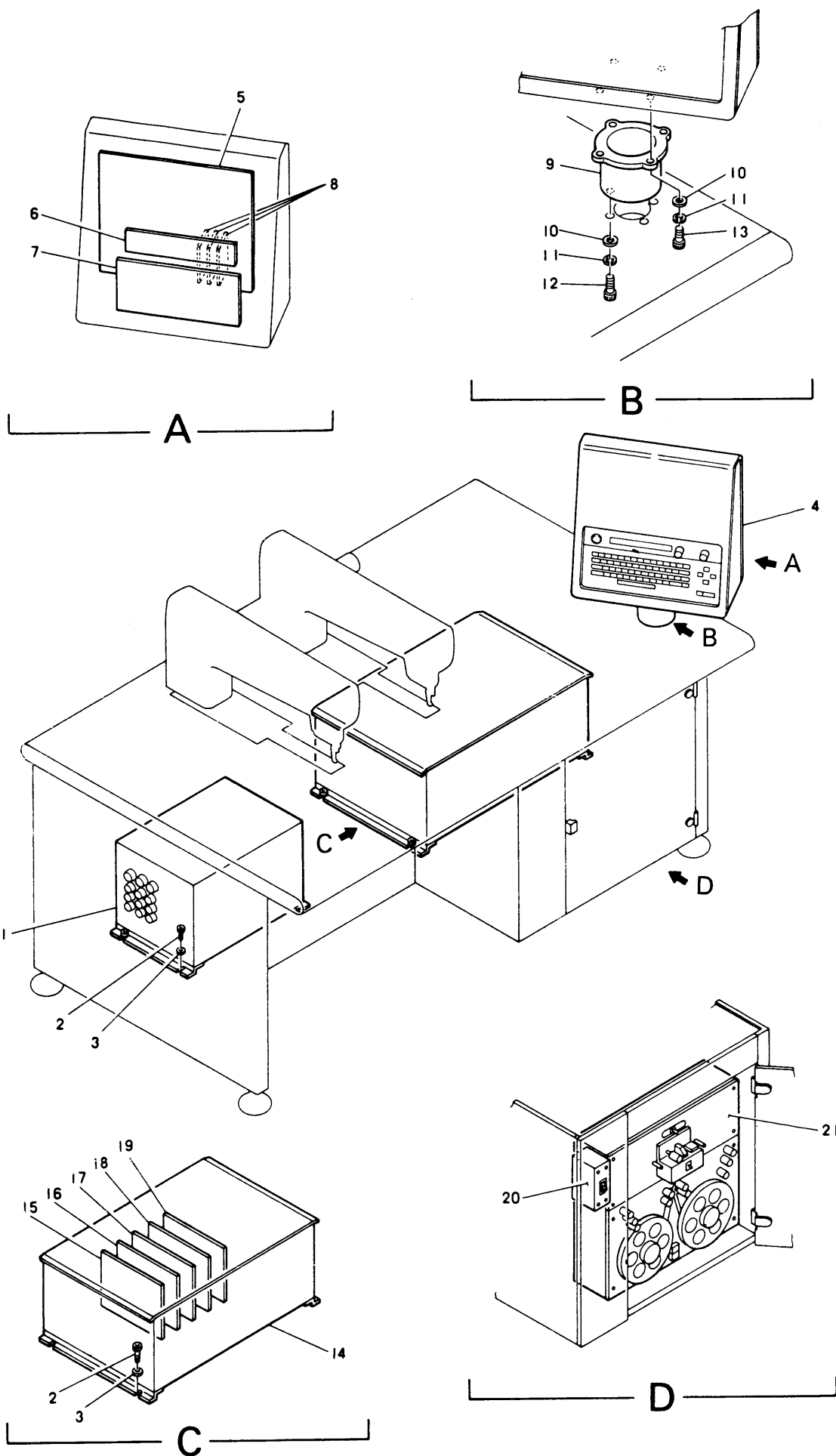
⑨-③ PANTOGRAPH DRIVE MECHANISM (V DIRECTION)

No.	Parts No.	Description
1	91006	BEARING 625ZZ
2		SCREW (M4×0.7)
3	4826C	BEARING SHAFT
4	4825C	BUCKLE (TIMING BELT)
5		BOLT (M3×0.5)
6	4823C	V SLIDE PACK BASE
7	4838C	SPACER FOR FBW3590
8	4831H	SLIDE PACK (FBW3590)
9		BOLT (M4×0.7)
10	4833C	GUIDE RAIL
11		RING
12	4841H	TIMING PULLY SHAFT BUSH
13	4754C	TIMING BELT PULLY
14	4844A	TIMING PULLY SHAFT (REAR)
15		BOLT (M5×0.8)
16	4718H	CLAMPING COLLAR
17	4783A	CONNECTING SHAFT (V PULSE MOTOR)
18	4767C	CLAMPING COLLAR
19	4752H	TIMING BELT PULLY
20	4812A	V GUIDE RAIL BASE (300L)
	4822A	V GUIDE RAIL BASE (450L)
21		PLATE WASHER
22		SPRING WASHER
23		NUT (M8×1.25)
24	91001	BEARING 6000ZZ
25	4779H	BEARING COVER
26		BOLT (M4×0.7)
27		BOLT (M4×0.7)
28		PLATE WASHER
29	4849A	SPACER
30		PLATE WASHER
31		SPRING WASHER
32		BOLT (M8×1.25)
33	4736A	TIMING BELT
34	4827C	TIMING PULLY SHAFT (FRONT)



⑩ TABLE AND TAPE HANDLER BOX

No.	Parts No.	Description
1	1 2 1 6 A.....	CENTER TABLE (BEAT-102, 300×300)
	1 2 1 7 A.....	CENTER TABLE (BEAT-101, 300×300)
	1 2 1 8 A.....	CENTER TABLE (BEAT-102, 300×450)
	1 2 1 9 A.....	CENTER TABLE (BEAT-101, 300×450)
2	.....	SCREW (M6×1)
3	1 2 1 6 A.....	TABLE (BEAT-102, 300×300)
	1 2 1 7 A.....	TABLE (BEAT-101, 300×300)
	1 2 1 8 A.....	TABLE (BEAT-102, 300×450)
	1 2 1 9 A.....	TABLE (BEAT-101, 300×450)
4	9 1 2 2 5.....	HINGE (B-31)
5	.....	SCREW
6	.....	SCREW
7	1 4 3 1 A.....	SUPPORT PLATE (CENTER TABLE)
8	1 4 3 2 A.....	SUPPORT PLATE BRACKET
9	9 1 2 3 2.....	BOLT (M8×1.25)
10	7 1 4 5 A.....	BOX FOR TAPE HANDLER
11	.....	SCREW (M6×1)
12	7 1 4 8 A.....	BOX COVER 56.5×48 (BEAT 300×300)
	7 1 4 8 A.....	BOX COVER 52×48 (BEAT 300×450)
13	7 1 4 3 A.....	HINGE
14	.....	SCREW (M3×0.5)
15	.....	SCREW (M4×0.7)
16	7 1 4 9 A.....	BRACKET
17	.....	NUT (M3×0.5)
18	1 4 3 8 A.....	SUPPORT PLATE BRACKET
19	.....	BOLT (M6×1)
20	1 4 6 2 A.....	SUPPORT PLATE



⑪ CONTROL SYSTEM

No.	Parts No.	Description
1	5210A.....	TRANSFORMER
2	.....	BOLT (M5×0.8)
3	.....	PLATE WASHER
4	5110A.....	CONTROLLER (AUTOMAT)
5	.....	CONTROLLER BOARD (87001201)
6	.....	CRYSTAL LIQUID INDICATOR
7	.....	KEY BOARD (87001301)
8	.....	MEMORY BOARD (87001401)
9	5191A.....	BASE (CONTROLLER)
10	.....	PLATE WASHER
11	.....	SPRING WASHER
12	.....	BOLT (M8×1.25)
13	.....	BOLT (M8×1.25)
14	5120A.....	DRIVER BOX
15	.....	POWER SUPPLY BOARD (86862201)
16	.....	DRIVER INTERFACE BOARD (86862301)
17	.....	DRIVER BOARD (V/H) (86862501)
18	.....	DRIVER BOARD (V/H) (86862501)
19	.....	POWER INTERFACE BOARD (86862401)
20	.....	MAIN SWITCH (BRAKER)
21	5220A.....	TAPE HANDLER

